Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL ENGINE FAMILY		IILY	ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST	SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6				
2011	BVPTH10.8	S01	10.8	Diesel	PROCEDURE	CLASS *	DDI, TC, CAC, ECM, EGR, OC, PTOX, SCR-U, OC, SPL	EMD+				
PRIMARY ENGINE'S IDLE EMISSIONS CONTROL ADDITIONAL IDLE EMISSIONS CONTROL												
	30g	N/A										
ENGINE (L	L)	ENGINE MODELS / CODES (rated power, in hp)										
10.8		See attachment for engine models and ratings (clean idle engines are labeled as 50-State compliant engines)										
L=liter; hp= 1 CNG/LN 2 L/M/H H 3 ECS=en up catalyst; TBI=throttle	=horsepower; kw=k NG=compressed/liqu IDD=light/medium/h nission control syste DPF=diesel particus body fuel injection;	ilowatt; hu nefied natu eavy heav em; TWC/ ulate filter; SFI/MFI=	r=hour; tral gas; LPG=liquefi ry-duty diesel; UB=u OC=three-way/oxidiz PTOX=periodic trap esequential/multi port	ed petroleum gas; E85=85% ethi rban bus; HDO=heavy duty Otto; ting catalyst; NAC=NOx adsorptic oxidizer; HO2S/O2S=heated/oxy fuel injection; DGI=direct gasolin	anol fuel; MF=mult on catalyst; SCR-L /gen sensor; HAF; le injection: GCAR	i fuel a.k.a. BF I / SCR-N=sele S/AFS=heated/ B=gaseous car	R 86.abc=Title 40, Code of Federal Regulations =bi fuel; DF=dual fuel; FF=flexible fuel; ctive catalytic reduction – urea / ammonia; W air-fuel-ratio sensor (a.k.a., universal or linear o buretor; IDI/DDI=indirect/direct diesel injection;	U (prefix) =warm- xygen sensor); TC/SC=turbo/				
control mod ESS=en	fule; EM=engine mo ngine shutdown syst	edification; em (per 13	2 (prefix)=parallel; 3 CCR 1956.8(a)(6)((2) (suffix)=in series; SCR = Se A)(1); 30g=30 g/hr NOx (per 13 C	lective Catalytic Re CR 1956.8(a)(6)(C	duction system); APS =intern	injection; SPL=smoke puff limiter; ECM/PCM= al combustion auxiliary power system; ALT=alt (e.g., Otto engines and vehicles);					

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.).

in	NMHC		NOx		NMHC+NOx		со		PM		нсно	
g/bhp-hr	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	0.14	0.20	0.20	*	*	15.5	15.5	*	*	*	*
FEL	*	*	*	*	*	*	*	*	0.00	0.00	*	*
CERT	0.02	0.01	0.13	0.09	*	*	*	*	0.001	0.002	*	*
NTE	0.21		0.30		*		19.4		0.02		*	

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ramp mode cycle supplemental emissions testing; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde;

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: Except in vehicle applications exempted per 13 CCR 1956.8(a)(6)(B), engines in this engine family certified under 13 CCR 1956.8(a)(6)(C) [30 g/hr NOx] and section 35.B.4 of the incorporated "California Exhaust Emissions Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles" adopted Dec. 12, 2002, as last amended Sep. 1, 2006, shall be provided with an approved "Certified Clean Idle" label that shall be affixed to the vehicle into which the engine is installed.

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

This Executive Order hereby supersedes Executive Order A-242-0060, dated December 23, 2010.

Executed at El Monte, California on this ______ day of March 2011.

EMD=engine manufacturer diagnostic system (13 CCR 1971); OBD=on-board diagnostic system (13 CCR 1971.1);

Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak Hi (for diesel only)	5.Fuel Rate: P(lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak tomue	8.Fuel Rate: ibs/hr)@peak torque	9.Emission Control Device Per SAE J1930	4
BVPTH10.8S01	N/A	MP7-325E	325 @ 1850	188.1	116.2	1282.0 @ 1200	241.3	96.7	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH10.8S01	N/A	MP7-355E	355 @ 1800	212.4	127.6	1393.2 @ 1200	262.9	105.3	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH10.8S01	N/A	MP7-405E	405 @ 1800	247.6	148.8	1492.6 @ 1200	282.5	113.2	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH10.8S01	N/A	MP7-345A	345 @ 1500	236.2	118.3	1249.1 @ 1000	230.8	77.1	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH10.8S01	N/A	MP7-345C	345 @ 1500	236.2	118.3	1391.9 @ 1200	261.7	104.9	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH10.8S01	N/A	MP7-365C	365 @ 1450	259.7	125.7	1491.0 @ 1200	280.8	112.5	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH10.8S01	N/A	MP7-395C	395 @ 1500	274.7	137.6	1596.6 @ 1200	304.0	121.8	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH10.8S01	N/A	MP7-325M	325 @ 1900	186.1_	118.1	1215.3 @1200	228.5	91.6	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH10.8S01	N/A	MP7-365M	365 @ 1900	211.7	134.3	1360.5 @ 1200	257.3	103.1	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH10.8S01	N/A	MP7-405M	405 @ 1900	239.8	152.2	1512.6 @1200	286.2	114.7	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH10.8S01	N/A	D11H-325	325 @ 1700	201.4	114.3	1235.6 @ 1050	234.7	82.3	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH10.8S01	N/A	D11H-355	355 @ 1700	221.3	125.6	1228.5 @ 1050	235.2	82.5	EM,EC,TC,CAC,DI,EGR,DPF,SCR	7
BVPTH10.8S01	N/A	D11H-365	365 @ 1700	225.9	128.2	1379.4 @ 1100	260.9	95.8	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH10.8S01	N/A	D11H-385	385 @ 1700	240.8	136.7	1508.0 @ 1200	284.3	113,9	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH10.8S01	N/A	D11H-405	405 @ 1800	248.9	149.6	1493.6 @ 1200	284.1	113.8	EM,EC,TC,CAC,DI,EGR,DPF,SCR	/

DDI, TC, CAC, ECN, EGR, E-DC, PTOX, STR, DC, SIL

ATTACK MENT